

### 2.3.1 Writing a program in JavaScript to verify implementations of IIFEs, callbacks, and closures

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Functions</title>
</head>
<body>

  <script src="closures.js"></script>
</body>
</html>
```

Closures.js

```
//IIFE and Closure
const empId = (function() {
  let count = 0;
  return function() {
    ++count;
    return `emp${count}`;
  };
})();

console.log("New Employee IDs are listed here");
console.log("Rupa: "+empId());
console.log("Pavan: "+empId());
console.log("Kumari: "+empId());


//Callbacks
console.log("\n");
function fullName(firstName, lastName, callback){
  console.log("My name is " + firstName + " " + lastName);
  callback(lastName);
}

var greeting = function(ln){
  console.log('Welcome ' + ln);
};

fullName("Rupa", "Sri", greeting);
console.log("\n");
fullName("Pavan", "Kalyan", greeting);
```

```
console.log("\n");
fullName("Kumari", "Raja", greeting);
```

## Output:

